



Water-Data Report CA-2005

**11241500 STEVENSON CREEK AT SHAVER LAKE, CA**

San Joaquin River Basin

LOCATION.--Lat 37°08'41", long 119°18'27" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.13, T.9 S., R.24 E., Fresno County, Hydrologic Unit 18040006, in Sierra National Forest, on right bank, 400 ft downstream from Highway 168, 1,600 ft downstream from Shaver Lake Dam, 2.6 mi north of town of Shaver Lake, and 5.1 mi southwest of town of Big Creek.

DRAINAGE AREA.--29.4 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

PERIOD OF RECORD.--October 1916 to August 1919, October 1919 to September 1920, May 1922 to September 1928, and October 1986 to current year. Prior to October 1986, published as "at Shaver."

GAGE.--Water-stage recorder, Parshall flume, and concrete control; auxiliary gage, acoustic-velocity meters on Shaver Lake Dam. Elevation of gage is 5,200 ft above NGVD of 1929, from topographic map. See WSP 1315-A for history of changes prior to October 1986.

REMARKS.--Flow regulated by Shaver Lake (station 11239500). Flow diverted into basin through Eastwood Powerplant (station 11238250). Diversion to Big Creek Powerplant No. 2A (station 11238400) bypasses station and returns to Big Creek. See schematic diagram of lower San Joaquin River Basin.

COOPERATION.—Records, including diversion to Big Creek Powerplant No. 2A, were collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 67-120.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft<sup>3</sup>/s, Nov. 27, 1926, gage height, 3.65 ft, site and datum then in use, maximum gage height, 7.64 ft, Apr. 26, 1993; no flow at times in 1924, 1925, 1927.

## 11241500 STEVENSON CREEK AT SHAVER LAKE, CA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	3.5	3.6	2.6	3.0	3.0	4.0	297	5.1	343	4.9	5.2	5.0
<b>2</b>	3.5	3.6	2.5	2.8	3.0	3.9	294	5.1	345	29	5.2	5.0
<b>3</b>	3.5	3.6	2.5	2.8	3.0	3.7	296	5.1	345	266	5.2	5.0
<b>4</b>	3.5	3.6	2.5	2.7	2.9	3.7	296	4.8	345	269	5.2	5.0
<b>5</b>	3.5	3.6	2.5	2.7	2.9	3.7	299	5.3	349	277	5.2	5.0
<b>6</b>	3.5	3.6	2.5	2.7	2.9	3.6	298	5.4	351	277	5.2	5.0
<b>7</b>	3.5	3.6	2.6	3.3	2.9	78	217	5.4	349	317	5.2	5.0
<b>8</b>	3.5	3.6	2.7	4.2	2.9	160	147	5.3	349	341	5.2	5.0
<b>9</b>	3.5	3.6	2.6	4.6	2.9	158	145	6.4	351	342	5.2	5.0
<b>10</b>	3.5	3.6	2.6	4.8	2.9	159	145	6.0	353	335	5.2	5.0
<b>11</b>	3.5	3.6	2.6	4.7	2.9	160	144	5.7	353	324	5.2	5.0
<b>12</b>	3.5	3.6	2.6	3.6	3.4	161	143	5.3	351	317	5.2	5.0
<b>13</b>	3.5	3.6	2.6	3.2	3.3	162	143	5.0	347	319	5.2	4.6
<b>14</b>	3.5	3.6	2.6	3.0	3.2	163	143	5.0	348	336	5.2	3.8
<b>15</b>	3.5	3.6	2.6	3.0	3.6	163	144	5.0	350	357	5.2	3.7
<b>16</b>	3.5	3.2	2.6	2.9	4.2	163	144	6.9	352	354	5.2	3.7
<b>17</b>	3.7	2.6	2.6	2.9	3.7	163	144	5.7	350	353	5.2	3.7
<b>18</b>	3.7	2.6	2.5	2.9	4.0	163	144	5.5	345	352	5.2	3.7
<b>19</b>	4.2	2.6	2.5	2.9	4.0	164	142	5.4	323	349	5.2	3.7
<b>20</b>	4.6	2.6	2.5	2.9	4.4	164	141	5.2	341	347	5.2	3.8
<b>21</b>	3.9	2.6	2.5	2.9	4.7	163	141	5.2	342	347	5.2	3.8
<b>22</b>	3.7	2.6	2.5	2.9	4.5	165	141	5.2	340	358	5.2	3.8
<b>23</b>	3.6	2.6	2.5	2.9	4.1	165	140	5.2	340	354	5.2	3.7
<b>24</b>	3.6	2.6	2.5	2.9	4.0	165	139	162	342	347	5.2	3.7
<b>25</b>	3.6	2.6	2.5	3.0	3.8	163	139	333	343	346	5.2	3.7
<b>26</b>	3.9	2.6	2.5	4.0	3.7	163	139	334	328	250	5.2	3.8
<b>27</b>	4.1	2.6	2.6	3.9	3.7	163	140	333	156	5.7	5.2	3.8
<b>28</b>	3.8	2.6	2.8	3.5	4.2	202	103	333	5.3	5.4	5.2	3.8
<b>29</b>	3.7	2.6	2.7	3.4	---	311	5.4	335	5.1	5.2	5.2	3.7
<b>30</b>	3.7	2.6	2.8	3.2	---	294	5.1	336	4.9	5.2	5.2	3.7
<b>31</b>	3.6	---	3.7	3.1	---	296	---	339	---	5.2	5.1	---
<b>Total</b>	113.4	93.6	80.9	101.3	98.7	4,453.6	4,958.5	2,629.2	9,146.3	7,894.6	161.1	128.2
<b>Mean</b>	3.66	3.12	2.61	3.27	3.52	144	165	84.8	305	255	5.20	4.27
<b>Max</b>	4.6	3.6	3.7	4.8	4.7	311	299	339	353	358	5.2	5.0
<b>Min</b>	3.5	2.6	2.5	2.7	2.9	3.6	5.1	4.8	4.9	4.9	5.1	3.7
<b>Ac-ft</b>	225	186	160	201	196	8,830	9,840	5,220	18,140	15,660	320	254
<b>Diversion, in acre-feet, to Big Creek Powerplant No. 2A</b>												
	16,810	22,800	19,510	21,150	7,230	33,080	38,550	38,640	28,090	19,560	25,350	24,260

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1928, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	4.54	8.14	7.53	5.13	12.9	38.7	66.8	59.8	20.3	5.73	4.76	3.51
<b>Max</b>	9.76	45.5	33.5	15.1	40.7	147	245	203	61.3	16.5	12.7	10.9
(WY)	(1917)	(1927)	(1927)	(1920)	(1927)	(1917)	(1917)	(1922)	(1922)	(1920)	(1927)	(1927)
<b>Min</b>	.48	.30	.13	.15	.25	.37	.46	.27	.070	.000	.000	.000
(WY)	(1926)	(1928)	(1928)	(1928)	(1928)	(1924)	(1928)	(1928)	(1924)	(1924)	(1924)	(1924)

**11241500 STEVENSON CREEK AT SHAVER LAKE, CA—Continued****SUMMARY STATISTICS**

<b>Water Years 1917 - 1928</b>		
<b>Annual mean</b>	19.6	
<b>Highest annual mean</b>	61.9	1917
<b>Lowest annual mean</b>	.76	1928
<b>Highest daily mean</b>	854	Nov 27, 1926
<b>Lowest daily mean</b>	.00	Jun 11, 1924
<b>Annual seven-day minimum</b>	.00	Jun 20, 1924
<b>Annual runoff (ac-ft)</b>	14,170	
<b>10 percent exceeds</b>	46	
<b>50 percent exceeds</b>	4.5	
<b>90 percent exceeds</b>	.20	

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	11.2	3.29	2.75	16.0	23.3	43.3	46.4	68.7	118	79.7	12.6	3.60
<b>Max</b>	147	3.91	3.83	253	280	304	289	382	556	495	98.4	4.90
<b>(WY)</b>	(1999)	(2001)	(2001)	(1997)	(1997)	(1997)	(1997)	(1996)	(1995)	(1995)	(1995)	(1997)
<b>Min</b>	3.26	2.92	2.18	2.21	2.39	2.38	3.20	3.22	3.23	3.03	3.16	3.11
<b>(WY)</b>	(1997)	(1993)	(2000)	(1996)	(1990)	(2002)	(2002)	(2002)	(1994)	(1997)	(1996)	(1998)

**SUMMARY STATISTICS**

	<b>Calendar Year 2004</b>			<b>Water Year 2005</b>			<b>Water Years 1987 - 2005</b>		
<b>Annual total</b>	1,189.3			29,859.4			35.7		
<b>Annual mean</b>	3.25			81.8			156		
<b>Highest annual mean</b>							1995		
<b>Lowest annual mean</b>							3.04		
<b>Highest daily mean</b>	4.6			Oct 20			688		
<b>Lowest daily mean</b>	2.5			Dec 2			1.2		
<b>Annual seven-day minimum</b>	2.5			Dec 18			1.9		
<b>Maximum peak flow</b>							816		
<b>Maximum peak stage</b>							816		
<b>Annual runoff (ac-ft)</b>	2,360			59,230			25,870		
<b>Total diversion (ac-ft)<sup>a</sup></b>	224,800			295,000			243,200		
<b>10 percent exceeds</b>	3.6			340			159		
<b>50 percent exceeds</b>	3.5			5.0			3.5		
<b>90 percent exceeds</b>	2.6			2.6			2.5		

<sup>a</sup> Diversion, in acre-feet, to Big Creek Powerplant No. 2A.

**11241500 STEVENSON CREEK AT SHAVER LAKE, CA—Continued**

